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LISTS OF SPECIES

Epiphytic hydroids (Hydrozoa: Anthoathecata and Leptothecata) of the World.

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Abstract
Hydroids are an important component of marine epiphytic communities worldwide. We compiled data from several faunistic, taxonomic, and ecologic studies to prepare a list of 200 morphotypes (46 Anthoathecates and 154 Leptothecates) and their respective phytal substrata. The goal of this checklist is to support future biogeographical and ecological inferences concerning this important biota.

Introduction
Studies on hydroids associated with phytal substrata have been made in many areas of the world (*e.g.* Nishihira 1965 for Japan; Gravier 1970 for Madagascar; Boero 1981 for Italy; Watson 1992 for Australia; Calder 1995 for the Sargasso Sea; Oliveira et al. 2006 for Brazil). Hydroids have been recognized as one of the main components of the epiphytic community (Hayward 1980). However, records of epiphytic hydroids are scattered in the literature, making it difficult to carry out broader analyses of hydroid distribution and ecology. Therefore, the aim of this study is to compile a list of the epiphytic hydroid species of the world in order to support future biogeographical and ecological studies concerning these animals. The present list is comprehensive but is not intended to be completely exhaustive.

Material and Methods
Brazilian species were collected, identified and fixed according to the methodology of Oliveira et al. (2006). To minimize taxonomic mistakes, species identification followed the most recent faunistic and taxonomic revision papers (Naumov 1969; Millard 1975; Calder 1988; 1991a; 1997; Hirohito 1988; 1995; Cornelius 1995a; 1995b; Migotto 1996; Schuchert 1996; 1997; 2001; Marques 2001; Marques and Migotto 2001). Algae nomenclature follows Guiry (2004). We assigned priority to major faunistic studies in recording a given species on a given substrate for a specific region, rather than creating an exhaustive list of all records for a particular epiphytic hydroid taxon. The various species of hydroids were arranged alphabetically to facilitate information recovery.

Species List and Substrata

Abietinaria laevimarginata (Ritchie, 1907) – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Aglaophenia dentata Billard, 1913 – On *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992).

Aglaophenia divaricata (Busk, 1852) – On *Gelidium australe* J. Agardh, *Laurencia clavata* Sonder, *Phacelocarpus labillardieri* (Mertens ex Turner) J. Agardh, and *Plocamium preissianum* Sonder from West Island, Australia (Shepherd and Watson 1970).

Aglaophenia elongata Meneghini, 1845 – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Aglaophenia harpago von Schenck, 1965 – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981), from the Italian coast (Boero et al. 1985), from Mallorca Island, Spain (Roca 1987), and from Medes Island, Spain (García-Rubies 1987).

Aglaophenia ident. [*sensu* Faucci & Boero, 2000] – On *Cystoseira compressa* (Esper) Gerloff & Nizamuddin, *Cystoseira barbata* (Stackhouse) C. Agardh, and *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Porto Cesareo, Italy (Faucci and Boero 2000).

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Aglaophenia kirchenpaueri (Heller, 1868) – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Aglaophenia latecarinata Allman, 1877 (Figure 1) – On *Caulerpa racemosa* (Forssk.) J. Agardh, *Sargassum cymosum* C. Agardh, *Sargassum furcatum* Kützing, *Galaxaura frutescens* Kjellman, and *Hypnea musciformis* (Wulfen) J.V. Lamouroux from São Sebastião, Brazil (Oliveira et al. 2006); on *Sargassum fluitans* (Børgesen) Børgesen from the Sargasso Sea, Bermuda (Calder 1995).

Aglaophenia octodonta (Heller, 1868) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002) and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000).

Aglaophenia picardi Svoboda, 1979 – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Aglaophenia pluma (Linnaeus, 1758) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin, *Cystoseira barbata* (Stackhouse) C. Agardh, and *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Porto Cesareo, Italy (Faucci and Boero 2000).

Aglaophenia plumosa Bale, 1882 – On *Laurencia clavata* Sonder, *Plocamium preissianum* Sonder, *Gelidium glandulaefolium* J.D. Hooker & Harvey, and *Rhodymenia australis* Sonder from West Island, Australia (Shepherd and Watson 1970); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch., *Amphibolis griffithii* (J.M.Black) den Hartog, and *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Aglaophenia tubiformis Marktanner-Turneretscher, 1890 – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002) and Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin, *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Amphinema dinema (Péron & Lesueur, 1810) – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Amphinema sp. – On *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b).

Amphisbetia mccallumi (Bartlett, 1907) – On *Gelidium australe* J. Agardh, *Phacelocarpus labillardieri* (Mertens ex Turner) J. Agardh, *Plocamium preissianum* Sonder, and *Rhodymenia australis* Sonder from West Island, Australia (Shepherd and Watson 1970).

Amphisbetia minima (Thompson, 1879) – On *Laurencia clavata* Sonder, *Plocamium preissianum* Sonder, *Gelidium glandulaefolium* J.D. Hooker & Harvey, and *Rhodymenia australis* Sonder from West Island, Australia (Shepherd and Watson 1970); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch., *Amphibolis griffithii* (J.M.Black) den Hartog, and *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Amphisbetia pacifica Stechow, 1931 – On *Sargassum tortile* (C. Agardh) C. Agardh from Tsuchiya, Japan (Nishihira 1965).

Amphisbetia pulchella D'Orbigny, 1839 – On *Rhodymenia australis* Sonder from West Island, Australia [Shepherd and Watson 1970, as "*Amphisbetia pulchella* (Thompson, 1879)"].

Antennella secundaria (Gmelin, 1791) – On *Sargassum tortile* (C. Agardh) C. Agardh, *Sargassum hemiphyllum* (Turner) C. Agardh, and *Sargassum thunbergii* (Mertens ex Roth) Kuntze from Tsuchiya, Japan (Nishihira 1965); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, and *Syringodium isoetifolium* (Asch.) Dandy from Tulear, Madagascar (Gravier 1970); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981), from the Italian coast (Boero et al. 1985), and from Medes Island, Spain (García-Rubies 1987).

Antennella sp.1 [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

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Antennella sp.2 [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Anthohebella parasitica (Ciamician, 1880) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002) and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000).

Bimeria vestita Wright, 1859 – On *Hypnea musciformis* (Wulfen) J.V. Lamouroux from São Sebastião, Brazil (Oliveira et al. 2006).

Bougainvillia muscus (Allman, 1863) – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Bougainvillia sp. – On *Sargassum hemiphyllum* (Turner) C. Agardh from Tsuchiya, Japan (Nishihira 1965).

Bougainvillidae sp. ind. [sensu Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Calamphora campanulata (Warren, 1908) – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, and *Syringodium isoetifolium* (Asch.) Dandy from Tulear, Madagascar (Gravier 1970).

Campalecium medusiferum Torrey, 1902 – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Campanularia australis Stechow, 1924 – On *Acrocarpia paniculata* (Turner) Areschoug, *Laurencia clavata* Sonder, *Gelidium glandulaefolium* J.D. Hooker & Harvey, and *Rhodymenia australis* Sonder from West Island, Australia (Shepherd and Watson 1970).

Campanularia hincksii Alder, 1856 – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981) and from Mallorca Island, Spain (Roca 1987).

Campanularia morgansi Millard, 1957 – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Campanularia sp. [*sensu* Nishihira, 1965, 1968] – On *Sargassum tortile* (C. Agardh) C. Agardh and *Sargassum hemiphyllum* (Turner) C. Agardh from Tsuchiya, Japan (Nishihira 1965); on *Zostera marina* Linnaeus from Asamushi, Japan (Nishihira 1968).

Campanularia sp.1 [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Campanularia sp.2 [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Campanularia volubilis (Linnaeus, 1758) – On *Zostera marina* Linnaeus from Asamushi, Japan (Nishihira 1968).

Campanulariidae sp. ind. [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Cladocoryne floccosa Rotch, 1871 – On *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Sargassum furcatum* Kützing, *Galaxaura frutescens* Kjellman and *Hypnea musciformis* (Wulfen) J.V. Lamouroux from São Sebastião, Brazil (Oliveira et al. 2006); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981), and from Medes Island, Spain (García-Rubies 1987).

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Cladonema radiatum Dujardin, 1856 – On *Padina gymnospora* (Kützing) Sonder from São Sebastião, Brazil (Oliveira et al. 2006); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981); on *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b).

Clava multicornis (Forskål, 1775) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002) and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus and *Diplanthera uninervis* (Forssk.) Asch. from Tulear, Madagascar (Gravier 1970).

Clytia gracilis (M. Sars, 1850) (Figures 2-3) – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., *Syringodium isoetifolium* (Asch.) Dandy, and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970); on *Caulerpa racemosa* (Forssk.) J. Agardh, *Sargassum furcatum* Kützing, *Acanthophora spicifera* (M. Vahl) Børgesen from, *Galaxaura frutescens* Kjellman, and *Hypnea musciformis* (Wulfen) J.V. Lamouroux from São Sebastião, Brazil (Oliveira et al. 2006).

Clytia delicatula (Thornely, 1900) – On *Sargassum hemiphyllum* (Turner) C. Agardh and *Sargassum thunbergii* (Mertens ex Roth) Kuntze from Tsuchiya, Japan (Nishihira 1965).

Clytia hemisphaerica (Linnaeus, 1767) – *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002); on *Posidonia oceanica* (Linn.) Delile from Mallorca Island, Spain (Roca 1987), from Medes Island, Spain (García-Rubies 1987), from Lacco Ameno and Prelo, Italy (Boero 1981), and from the Italian coast (Boero et al. 1985); on *Sargassum fluitans* (Børgesen) Børgesen and *Sargassum natans* (Linnaeus) Gaillon from the Sargasso Sea, Bermuda (Calder 1995); on *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b); on *Sargassum stenophyllum* Martius from Paraná, Brazil (Haddad and Chiaverini 2000); on *Caulerpa racemosa* (Forssk.) J. Agardh, *Padina gymnospora* (Kützing) Sonder, *Sargassum cymosum* C. Agardh, *Sargassum furcatum* Kützing f, *Acanthophora spicifera* (M. Vahl) Børgesen, *Galaxaura frutescens* Kjellman, *Hypnea musciformis* (Wulfen) J.V. Lamouroux, and *Halodule emarginata* Hartog. from São Sebastião, Brazil (Oliveira et al. 2006); *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., *Syringodium isoetifolium* (Asch.) Dandy, and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992); on *Sargassum hemiphyllum* (Turner) C. Agardh from Tsuchiya, Japan (Nishihira 1965); on *Zostera marina* Linnaeus from Asamushi, Japan (Nishihira 1968).

Clytia hummelincki (Leloup, 1935) – On *Sargassum furcatum* Kützing and *Acanthophora spicifera* (M. Vahl) Børgesen from São Sebastião, Brazil (Oliveira et al. 2006).

Clytia linearis (Thornely, 1899) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991);on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981), from the Italian coast (Boero et al. 1985), and from Medes Island, Spain (García-Rubies 1987); on *Caulerpa racemosa* (Forssk.) J. Agardh, *Padina gymnospora* (Kützing) Sonder, *Acanthophora spicifera* (M. Vahl) Børgesen, *Galaxaura frutescens* Kjellman, and *Hypnea musciformis* (Wulfen) J.V. Lamouroux from São Sebastião, Brazil (Oliveira et al. 2006); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., *Syringodium isoetifolium* (Asch.) Dandy, and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970).

Clytia noliformis auct. (Figure 4) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira*

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barbata (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981); on *Sargassum fluitans* (Børgesen) Børgesen and *Sargassum natans* (Linnaeus) Gaillon from the Sargasso Sea, Bermuda (Calder 1995); on *Sargassum furcatum* Kützing and *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, and *Syringodium isoetifolium* (Asch.) Dandy from Tulear, Madagascar (Gravier 1970). Note: *Clytia noliformis* (McCrady, 1859) [originally *Campanularia noliformis* McCrady, 1859] has been conserved in its current meaning in the interests of nomenclatural stability [see ICZN, 2002. Opinion 1986 (Case 3166)].

Clytia paulensis (Vanhöffen, 1910) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981), and from the Italian coast (Boero et al. 1985).

Clytia sp. [*sensu* Faucci & Boero, 2000] – On *Cystoseira compressa* (Esper) Gerloff & Nizamuddin, *Cystoseira barbata* (Stackhouse) C. Agardh, and *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Porto Cesareo, Italy (Faucci and Boero 2000).

Clytia sp.1 [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., *Syringodium isoetifolium* (Asch.) Dandy, and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970).

Clytia sp.2 [*sensu* Gravier, 1970] – On *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., *Syringodium isoetifolium* (Asch.) Dandy, and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970).

Coryne epizoica Stechow, 1921 – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Coryne muscoides (Linnaeus, 1761) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002) and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from the Italian coast (Boero et al. 1985).

Coryne pintneri Schneider, 1897 - On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981) and from the Italian coast (Boero et al. 1985).

Coryne producta (Wright, 1858) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002) and on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin from Porto Cesareo, Italy (Faucci and Boero 2000).

Coryne pusilla Gaertner, 1774 – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981); on *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Laminaria hyperborea* (Gunnerus) Foslie and *Laminaria digitata* (Hudson) J.V. Lamouroux from Helgoland, Germany (Schultze et al. 1990); on *Sargassum stenophyllum* Martius from Paraná, Brazil (Haddad and Chiaverini 2000); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., and *Syringodium isoetifolium* (Asch.) Dandy from Tulear, Madagascar (Gravier 1970).

Coryne uchidai Stechow, 1831 – On *Sargassum tortile* (C. Agardh) C. Agardh, *Sargassum hemiphyllum* (Turner) C. Agardh, and *Sargassum thunbergii* (Mertens ex Roth) Kuntze from Tsuchiya, Japan (Nishihira 1965).

Corynidae sp. ind. [*sensu* Gravier, 1970] – On *Cymodocea serrulata* (R.Br.) Asch. & Magnus from Tulear, Madagascar (Gravier 1970).

Crateritheca acanthostoma (Bale, 1882) – On *Gelidium australe* J. Agardh and *Phacelocarpus labillardieri* (Mertens ex Turner) J. Agardh from West Island, Australia (Shepherd and Watson 1970).

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Dentitheca bidentata (Jäderholm, 1920) – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Diphasia tropica Nutting, 1904 – On *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006).

Dipurena halterata (Forbes, 1846) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002).

Dipurena reesi Vannucci, 1956 – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch.,

Dynamena crisioides Lamouroux, 1824 – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., *Syringodium isoetifolium* (Asch.) Dandy, and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970).

Dynamena disticha (Bosc, 1802) – On *Posidonia oceanica* (Linn.) Delile from Mallorca Island, Spain (Roca 1987), from Medes Island, Spain (García-Rubies 1987), from Lacco Ameno and Prelo, Italy (Boero 1981); on *Cystoseira barbata* (Stackhouse) C. Agardh and *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Porto Cesareo, Italy (Faucci and Boero 2000); on *Sargassum fluitans* (Børgesen) Børgesen from the Sargasso Sea, Bermuda (Calder 1995); on *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b); on *Caulerpa racemosa* (Forssk.) J. Agardh, *Sargassum cymosum* C. Agardh, *Sargassum furcatum* Kützing, and *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., *Syringodium isoetifolium* (Asch.) Dandy, and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970).

Dynamena pumila (Linnaeus, 1758) – On *Laminaria hyperborea* (Gunnerus) Foslie and *Laminaria digitata* (Hudson) J.V. Lamouroux from Helgoland, Germany (Schultze et al. 1990).

Dynamena quadridentata (Ellis & Solander, 1786) – On *Sargassum furcatum* Kützing from São Sebastião, Brazil (Oliveira et al. 2006) and on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Ectopleura bethae (Warren, 1908) – On *Syringodium isoetifolium* (Asch.) Dandy from Tulear, Madagascar (Gravier 1970).

Ectopleura obypa Migotto & Marques, 1999 (Figures 5-6) – On *Padina gymnospora* (Kützing) Sonder from São Sebastião, Brazil (Oliveira et al. 2006).

Ectopleura wrighti Petersen, 1979 – On *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Eudendrium angustum Warren, 1908 – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Eudendrium capillare Alder, 1856 – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981); on *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002); on *Sargassum cymosum* C. Agardh from São Sebastião, Brazil (Oliveira et al. 2006); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, and *Diplanthera uninervis* (Forssk.) Asch. from Tulear, Madagascar (Gravier 1970).

Eudendrium cf. *arbuscula* Wright, 1859 – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Eudendrium glomeratum Picard, 1951 – On *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

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Eudendrium pocaruquarum Marques, 1995 (Figure 7) – On *Padina gymnospora* (Kützing) Sonder, *Sargassum cymosum* C. Agardh, *Acanthophora spicifera* (M. Vahl) Børgesen, and *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006).

Eudendrium racemosum (Cavolini, 1785) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991).

Eudendrium ramosum (Linnaeus, 1758) – On *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Eudendrium simplex Pieper, 1884 – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981), from the Italian coast (Boero et al. 1985), and from Medes Island, Spain (García-Rubies 1987).

Filellum serpens (Hassall, 1848) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Fraserocyphus sinuosus Boero & Bouillon, 1993 – On Rhodophyta from California, USA (Boero and Bouillon 1993).

Gonothyraea loveni (Allman, 1859) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991).

Gymnangium longirostre (Kirchenpauer, 1872) – On *Gelidium australe* J. Agardh and *Phacelocarpus labillardieri* (Mertens ex Turner) J. Agardh from West Island, Australia (Shepherd and Watson 1970).

Halecium beanii (Johnston, 1838) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991).

Halecium delicatulum Coughtrey, 1876 – On *Posidonia oceanica* (Linn.) Delile from Mallorca Island, Spain (Roca 1987).

Halecium dichotomum Allman, 1888 – On *Sargassum cymosum* C. Agardh from São Sebastião, Brazil (Oliveira et al. 2006).

Halecium dyssymetrum Billard, 1929 – On *Sargassum cymosum* C. Agardh and *Hypnea musciformis* (Wulfen) J.V. Lamouroux from São Sebastião, Brazil (Oliveira et al. 2006).

Halecium labrosum Alder, 1859 – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, and *Syringodium isoetifolium* (Asch.) Dandy from Tulear, Madagascar (Gravier 1970).

Halecium lankesteri (Bourne, 1890) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Halecium mediterraneum Weismann, 1883 – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Halecium nanum Alder, 1859 – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002) and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981), from Medes Island, Spain (García-Rubies 1987), and from the Italian coast (Boero et al. 1985); on *Sargassum fluitans* (Børgesen) Børgesen and *Sargassum natans* (Linnaeus) Gaillon from the Sargasso Sea, Bermuda (Calder 1995); on *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b).

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Halecium petrosum Stechow, 1919 – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Halecium pusillum (M. Sars, 1857) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002) and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from Mallorca Island, Spain (Roca 1987), from Medes Island, Spain (García-Rubies 1987), from Lacco Ameno and Prelo, Italy (Boero 1981), and from the Italian coast (Boero et al. 1985).

Halecium sp. – On *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Halecium sp.1 [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Halecium sp.1 [*sensu* Nishihira, 1965] – On *Sargassum tortile* (C. Agardh) C. Agardh, *Sargassum hemiphyllum* (Turner) C. Agardh, and *Sargassum thunbergii* (Mertens ex Roth) Kuntze from Tsuchiya, Japan (Nishihira 1965).

Halecium sp.2 [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. and *Diplanthera uninervis* (Forssk.) Asch. from Tulear, Madagascar (Gravier 1970).

Halecium sp.3 [*sensu* Nishihira, 1965] – On *Sargassum hemiphyllum* (Turner) C. Agardh from Tsuchiya, Japan (Nishihira 1965).

Halecium tenellum Hincks, 1861 – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Hypnea musciformis* (Wulfen) J.V. Lamouroux from São Sebastião, Brazil (Oliveira et al. 2006); on and *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Halopteris alternata (Nutting, 1900) – On *Caulerpa racemosa* (Forssk.) J. Agardh, *Padina gymnospora* (Kützing) Sonder, *Acanthophora spicifera* (M. Vahl) Børgesen, *Galaxaura frutescens* Kjellman, *Hypnea musciformis* (Wulfen) J.V. Lamouroux, and *Sargassum furcatum* Kützing from São Sebastião, Brazil (Oliveira et al. 2006).

Halopteris diaphana (Heller, 1868) – On *Codium decorticatum* (Woodward) Howe from São Sebastião, Brazil (Oliveira et al. 2006).

Halopteris polymorpha (Billard, 1913) – On *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006).

Halopteris sp. [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Hartlaubella gelatinosa (Pallas, 1776) – On *Laminaria hyperborea* (Gunnerus) Foslie and *Laminaria digitata* (Hudson) J.V. Lamouroux from Helgoland, Germany (Schultze et al. 1990).

Hebella scandens (Bale, 1888) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Hebella sp. – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Hincksella corrugata Millard, 1958 – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Hydractinia inermis (Allman, 1872) – On *Posidonia oceanica* (Linn.) Delile from Medes Island, Spain (García-Rubies 1987), from Lacco Ameno and Prelo, Italy (Boero 1981), and from the Italian coast (Boero et al. 1985).

Hydractinia fucicola (M. Sars, 1857) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002) and from Porto Cesareo, Italy (Faucci and Boero 2000); on

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Cystoseira compressa (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Hydrallmania falcata (Linnaeus, 1758) – On *Laminaria hyperborea* (Gunnerus) Foslie from Helgoland, Germany (Schultze et al. 1990).

Hydranthea margarica (Hincks, 1862) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991).

Hydrodendron mirabile (Hincks, 1866) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002) and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Kirchenpaueria echinulata (Hincks, 1868) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981) and from the Italian coast (Boero et al. 1985).

Kirchenpaueria pinnata (Linnaeus, 1758) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981), and from Medes Island, Spain (García-Rubies 1987).

Kirchenpaueria similis (Hincks, 1861) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002).

Kirchenpaueria sp. (*sensu* Faucci & Boero, 2000) – On *Cystoseira barbata* (Stackhouse) C. Agardh and *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Porto Cesareo, Italy (Faucci and Boero 2000).

Lafoea dumosa (Fleming, 1820) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991).

Lafoeina tenuis G.O.Sars, 1874 – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981) and from the Italian coast (Boero et al. 1985).

Laomedea angulata Hincks, 1861 – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Laomedea calceolifera (Hincks, 1871) – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Laomedea flexuosa Alder, 1857 – On *Laminaria hyperborea* (Gunnerus) Foslie from Helgoland, Germany (Schultze et al. 1990).

Lineolaria sp. [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970).

Lineolaria spinulosa Hincks, 1861 – On *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Macrorhynchia philippina (Kirchenpauer, 1872) – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970); on *Sargassum furcatum* Kützing from São Sebastião, Brazil (Oliveira et al. 2006).

Merona cornucopiae (Norman, 1864) – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Mitrocoma annae Haeckel, 1864 – On *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000).

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Monotheca margaretta Nutting, 1900 – On *Sargassum fluitans* (Børgesen) Børgesen and *Sargassum natans* (Linnaeus) Gaillon from the Sargasso Sea, Bermuda (Calder 1995); on *Sargassum furcatum* Kützing and *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006).

Myrionema amboinense Pictet, 1893 – On *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b).

Nemalecium lighti (Hargitt, 1924) – On *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b).

Obelia bidentata Clarke, 1875 – On *Caulerpa racemosa* (Forssk.) J. Agardh, *Padina gymnospora* (Kützing) Sonder, and *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., and *Syringodium isoetifolium* (Asch.) Dandy from Tulear, Madagascar (Gravier 1970).

Obelia dichotoma (Linnaeus, 1758) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981), from the Italian coast (Boero et al. 1985), and from Medes Island, Spain (García-Rubies 1987); on *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002), and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Laminaria hyperborea* (Gunnerus) Foslie and *Laminaria digitata* (Hudson) J.V. Lamouroux from Helgoland, Germany (Schultze et al. 1990); on *Sargassum fluitans* (Børgesen) Børgesen and *Sargassum natans* (Linnaeus) Gaillon from the Sargasso Sea, Bermuda (Calder 1995); on *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b); on *Padina gymnospora* (Kützing) Sonder, *Sargassum cymosum* C. Agardh, *Sargassum furcatum* Kützing, *Acanthophora spicifera* (M. Vahl) Børgesen, *Galaxaura frutescens* Kjellman, *Hypnea musciformis* (Wulfen) J.V. Lamouroux, and *Halodule emarginata* Hartog. from São Sebastião, Brazil (Oliveira et al. 2006); on *Sargassum hemiphyllum* (Turner) C. Agardh from Tsuchiya, Japan (Nishihira 1965); on *Phyllospadix iwatensis* Makino from Asamushi, Japan (Nishihira 1968).

Obelia geniculata (Linnaeus, 1758) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Laminaria hyperborea* (Gunnerus) Foslie and *Laminaria digitata* (Hudson) J.V. Lamouroux from Helgoland, Germany (Schultze et al. 1990); on *Posidonia oceanica* (Linn.) Delile from Mallorca Island, Spain (Roca 1987), from Medes Island, Spain (García-Rubies 1987), from Lacco Ameno and Prelo, Italy (Boero 1981), and from the Italian coast (Boero et al. 1985); on *Sargassum stenophyllum* Martius from Paraná, Brazil (Haddad and Chiaverini 2000); on *Padina gymnospora* (Kützing) Sonder and *Sargassum cymosum* C. Agardh from São Sebastião, Brazil (Oliveira et al. 2006); on *Syringodium isoetifolium* (Asch.) Dandy from Tulear, Madagascar (Gravier 1970); on *Sargassum hemiphyllum* (Turner) C. Agardh and *Sargassum thunbergii* (Mertens ex Roth) Kuntze from Tsuchiya, Japan (Nishihira 1965); on *Zostera marina* Linnaeus from Asamushi, Japan (Nishihira 1968); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992).

Obelia longissima (Pallas, 1766) – On *Laminaria hyperborea* (Gunnerus) Foslie and *Laminaria digitata* (Hudson) J.V. Lamouroux from Helgoland, Germany (Schultze et al. 1990); on *Phyllospadix iwatensis* Makino from Asamushi, Japan (Nishihira 1968).

Orthopyxis asymmerica Stechow, 1919 – On *Posidonia oceanica* (Linn.) Delile from Mallorca Island, Spain (Roca 1987), from Medes Island, Spain (García-Rubies 1987), from Lacco Ameno and Prelo, Italy (Boero 1981), and from the Italian coast (Boero et al. 1985).

Orthopyxis crenata (Hartlaub, 1901) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Porto Cesareo, Italy (Faucci and Boero 2000) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

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Orthopyxis everta Clarke, 1875 – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Orthopyxis integra (MacGillivray, 1842) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002), and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Sargassum stenophyllum* Martius from Paraná, Brazil (Haddad and Chiaverini 2000); on *Acrocarpia paniculata* (Turner) Areschoug, *Phacelocarpus labillardieri* (Mertens ex Turner) J. Agardh, *Plocamium preissianum* Sonder, and *Rhodymenia australis* Sonder from West Island, Australia (Shepherd and Watson 1970).

Orthopyxis platycarpa (Bale, 1914) – On *Sargassum tortile* (C. Agardh) C. Agardh, *Sargassum hemiphyllum* (Turner) C. Agardh, and *Sargassum thunbergii* (Mertens ex Roth) Kuntze from Tsuchiya, Japan (Nishihira 1965); on *Phyllospadix iwatensis* Makino and *Zostera marina* Linnaeus from Asamushi, Japan (Nishihira 1968).

Orthopyxis sargassicola (Nutting, 1915) – On *Sargassum stenophyllum* Martius from Paraná, Brazil (Haddad and Chiaverini 2000); on *Sargassum furcatum* Kützing, *Acanthophora spicifera* (M. Vahl) Børgesen and *Hypnea musciformis* (Wulfen) J.V. Lamouroux from São Sebastião, Brazil (Oliveira et al. 2006).

Orthopyxis tincta Hincks, 1861 – On *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Pachycordyle napolitana Weissmann, 1883 – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Pachycordyle pusilla (Motz-Kossowska, 1905) – On *Posidonia oceanica* (Linn.) Delile from Mallorca Island, Spain (Roca 1987), from Medes Island, Spain (García-Rubies 1987), from Lacco Ameno and Prelo, Italy (Boero 1981), and from the Italian coast (Boero et al. 1985).

Parawrightia robusta Warren, 1907 – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Pennaria disticha Goldfuss, 1820 – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. and *Syringodium isoetifolium* (Asch.) Dandy from Tulear, Madagascar (Gravier 1970).

Perarella schneideri (Motz-Kosowska, 1905) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991).

"*Perigonimus* sp." (*sensu* Gravier, 1970) – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. and *Cymodocea serrulata* (R.Br.) Asch. & Magnus from Tulear, Madagascar (Gravier 1970).

Phialella quadrata (Forbes, 1848) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Pinauay crocea (L. Agassiz, 1862) – On *Zostera marina* Linnaeus from Asamushi, Japan (Nishihira 1968).

Pinauay radiata (Uchida, 1937) – On *Zostera marina* Linnaeus from Asamushi, Japan (Nishihira 1968).

Pinauay ralphi (Bale, 1884) – On *Padina gymnospora* (Kützing) Sonder from São Sebastião, Brazil (Oliveira et al. 2006).

Plumularia australis Kirchenpauer, 1876 – On *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

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Plumularia filicaulis Kirchenpauer, 1876 – On *Laurencia clavata* Sonder, *Plocamium preissianum* Sonder, *Gelidium glandulaefolium* J.D. Hooker & Harvey, and *Rhodymenia australis* Sonder from West Island, Australia (Shepherd and Watson 1970); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Plumularia flexuosa Bale, 1894 – On *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Plumularia obliqua (Johnston, 1847) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002); on *Posidonia oceanica* (Linn.) Delile from Mallorca Island, Spain (Roca 1987), from Medes Island, Spain (García-Rubies 1987), from Lacco Ameno and Prelo, Italy (Boero 1981), and from the Italian coast (Boero et al. 1985).

Plumularia setacea (Linnaeus, 1758) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002), and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Laminaria hyperborea* (Gunnerus) Foslie and *Laminaria digitata* (Hudson) J.V. Lamouroux from Helgoland, Germany (Schultze et al. 1990); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Plumularia setaceoides Bale, 1882 – On *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Plumularia spinulosa Bale, 1882 – On *Acrocarpia paniculata* (Turner) Areschoug, *Plocamium preissianum* Sonder, and *Rhodymenia australis* Sonder from West Island, Australia (Shepherd and Watson 1970).

Plumularia strictocarpa Pictet, 1893 – On *Sargassum fluitans* (Børgesen) Børgesen and *Sargassum natans* (Linnaeus) Gaillon from the Sargasso Sea, Bermuda (Calder 1995); on *Sargassum furcatum* Kützing and *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970); on *Sargassum tortile* (C. Agardh) C. Agardh, *Sargassum hemiphyllum* (Turner) C. Agardh, and *Sargassum thunbergii* (Mertens ex Roth) Kuntze from Tsuchiya, Japan (Nishihira 1965); on *Zostera marina* Linnaeus from Asamushi, Japan (Nishihira 1968).

Plumularia undulata Yamada, 1950 – On *Phyllospadix iwatensis* Makino from Asamushi, Japan (Nishihira 1968).

Plumularia warreni Stechow, 1919 – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., *Syringodium isoetifolium* (Asch.) Dandy, and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970).

Podocoryne areolata (Alder, 1862) – On *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Pycnotheca mirabilis (Allman, 1883) – On *Sargassum tortile* (C. Agardh) C. Agardh from Tsuchiya, Japan (Nishihira 1965) and on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Pycnotheca producta (Bale, 1881) – On *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992).

Salacia desmoides (Torrey, 1902) – On *Posidonia oceanica* (Linn.) Delile from Mallorca Island, Spain (Roca 1987) and from Lacco Ameno and Prelo, Italy (Boero 1981).

Scandia gigas (Pieper, 1884) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981), and from the Italian coast (Boero et al. 1985).

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Sertularella gaudichaudi (Lamouroux, 1824) – On *Cystoseira compressa* (Esper) Gerloff & Nizamuddin, *Cystoseira barbata* (Stackhouse) C. Agardh, and *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981) and from the Italian coast (Boero et al. 1985).

Sertularella mediterranea Hartlaub, 1901 – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002).

Sertularella miurensis Stechow, 1921 – On *Sargassum tortile* (C. Agardh) C. Agardh, *Sargassum hemiphyllum* (Turner) C. Agardh, and *Sargassum thunbergii* (Mertens ex Roth) Kuntze from Tsuchiya, Japan (Nishihira 1965); on *Zostera marina* Linnaeus from Asamushi, Japan (Nishihira 1968).

Sertularella polyzonias (Linnaeus, 1758) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Sertularella robusta Coughtrey, 1876 – On *Gelidium australe* J. Agardh from West Island, Australia (Shepherd and Watson 1970).

Sertularella rugosa (Linnaeus, 1758) – On *Laminaria hyperborea* (Gunnerus) Foslie from Helgoland, Germany (Schultze et al. 1990) and on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Sertularella sp. [*sensu* García-Rubies 1987] – On *Posidonia oceanica* (Linn.) Delile from Medes Island, Spain (García-Rubies 1987).

Sertularella sp. [*sensu* Nishihira, 1965] – On *Sargassum tortile* (C. Agardh) C. Agardh, *Sargassum hemiphyllum* (Turner) C. Agardh, and *Sargassum thunbergii* (Mertens ex Roth) Kuntze from Tsuchiya, Japan (Nishihira 1965).

Sertularia cupressina Linnaeus, 1758 – On *Laminaria hyperborea* (Gunnerus) Foslie and *Laminaria digitata* (Hudson) J.V. Lamouroux from Helgoland, Germany (Schultze et al. 1990).

Sertularia distans (Lamouroux, 1816) – On *Halimeda tuna* (Ellis & Solander) Lamouroux from Tossa de Mar, Spain (Llobet et al. 1991); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981) and from Medes Island, Spain (García-Rubies 1987); on *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b); on *Sargassum stenophyllum* Martius from Paraná, Brazil (Haddad and Chiaverini 2000); on *Halodule emarginata* Hartog., *Caulerpa racemosa* (Forssk.) J. Agardh, *Padina gymnospora* (Kützing) Sonder, *Sargassum cymosum* C. Agardh, *Sargassum furcatum* Kützing, *Acanthophora spicifera* (M. Vahl) Børgesen, *Galaxaura frutescens* Kjellman, and *Hypnea musciformis* (Wulfen) J.V. Lamouroux from São Sebastião, Brazil (Oliveira et al. 2006); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., *Syringodium isoetifolium* (Asch.) Dandy, and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970).

Sertularia loculosa Busk, 1852 (Figure 8) – On *Caulerpa racemosa* (Forssk.) J. Agardh, *Padina gymnospora* (Kützing) Sonder, *Sargassum cymosum* C. Agardh, and *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006).

Sertularia marginata (Kirchenpauer, 1864) – On *Sargassum stenophyllum* Martius from Paraná, Brazil (Haddad and Chiaverini 2000); on *Padina gymnospora* (Kützing) Sonder, *Sargassum cymosum* C. Agardh, *Acanthophora spicifera* (M. Vahl) Børgesen, and *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006); on *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b).

Sertularia perpusilla Stechow, 1919 – *Posidonia oceanica* (Linn.) Delile from Mallorca Island, Spain (Roca 1987), from Medes Island, Spain (García-Rubies 1987), from Lacco Ameno and Prelo, Italy (Boero 1981), and from the Italian coast (Boero et al. 1985).

Sertularia rugosissima Thornely, 1904 – On *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006).

Sertularia sp. [*sensu* Gravier, 1970] – On *Diplanthera uninervis* (Forssk.) Asch. and *Syringodium isoetifolium* (Asch.) Dandy from Tulear, Madagascar (Gravier 1970).

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Sertularia turbinata (Lamouroux, 1816) (Figure 9) – On *Phacelocarpus labillardieri* (Mertens ex Turner) J. Agardh and *Plocamium preissianum* Sonder from West Island, Australia (Shepherd and Watson 1970); on *Caulerpa racemosa* (Forssk.) J. Agardh, *Padina gymnospora* (Kützing) Sonder, *Sargassum cymosum* C. Agardh, *Sargassum furcatum* Kützing, *Acanthophora spicifera* (M. Vahl) Børgesen, *Galaxaura frutescens* Kjellman, *Hypnea musciformis* (Wulfen) J.V. Lamouroux, and *Halodule emarginata* Hartog. from São Sebastião, Brazil (Oliveira et al. 2006).

Sertulariidae sp.1 [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Sertulariidae sp.2 [*sensu* Gravier, 1970] – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Silicularia undulata (Mulder & Trebilcock, 1914) – On *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Staurocladia portmanni Brinckmann, 1964 – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Stereotheca elongata (Lamouroux, 1816) – On *Acrocarpia paniculata* (Turner) Areschoug, *Gelidium australe* J. Agardh, *Phacelocarpus labillardieri* (Mertens ex Turner) J. Agardh, *Plocamium preissianum* Sonder, and *Gelidium glandulaefolium* J.D. Hooker & Harvey from West Island, Australia (Shepherd and Watson 1970); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Symmetroscyphus intermedius (Congdon, 1907) – On *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b).

Symplectoscyphus hozawai Stechow, 1931 – On *Phyllospadix iwatensis* Makino from Asamushi, Japan (Nishihira 1968).

Symplectoscyphus indivisus (Bale, 1882) – On *Acrocarpia paniculata* (Turner) Areschoug, *Gelidium australe* J. Agardh, *Phacelocarpus labillardieri* (Mertens ex Turner) J. Agardh, and *Gelidium glandulaefolium* J.D. Hooker & Harvey from West Island, Australia (Shepherd and Watson 1970).

Symplectoscyphus neglectus (Thompson, 1879) – On *Gelidium australe* J. Agardh, *Laurencia clavata* Sonder, *Phacelocarpus labillardieri* (Mertens ex Turner) J. Agardh, *Plocamium preissianum* Sonder, *Gelidium glandulaefolium* J.D. Hooker & Harvey, and *Rhodymenia australis* Sonder from West Island, Australia (Shepherd and Watson 1970).

Synthecium evansi (Ellis & Solander, 1786) – On *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Thyroscyphus balei Calder, 1983 – On *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. and *Amphibolis griffithii* (J.M.Black) den Hartog from Marmion, Australia (Watson 1992); on *Amphibolis antarctica* (Labillardière) Sonder & Asch. ex Asch. from Queenscliff, Australia (Watson 1992).

Thyroscyphus fruticosus (Esper, 1793) – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. and *Cymodocea serrulata* (R.Br.) Asch. & Magnus from Tulear, Madagascar (Gravier 1970).

Thyroscyphus sibogae Billard, 1930 – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Turritopsis nutricula McCrady, 1857 – On *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006) and on *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b).

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Turritopsis sp. (*sensu* Gravier, 1970) – On *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch. from Tulear, Madagascar (Gravier 1970).

Turritopsoides brehmeri Calder, 1988 – On *Thalassia testudinum* Koenig from Twin Cays, Belize (Calder 1991b).

Ventromma halecioides (Alder, 1859) – On *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Apulia, Italy (Fraschetti et al. 2002), and from Porto Cesareo, Italy (Faucci and Boero 2000); on *Cystoseira compressa* (Esper) Gerloff & Nizamuddin and *Cystoseira barbata* (Stackhouse) C. Agardh from Porto Cesareo, Italy (Faucci and Boero 2000); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981) and from the Italian coast (Boero et al. 1985); on *Halodule emarginata* Hartog., *Caulerpa racemosa* (Forssk.) J. Agardh, *Padina gymnospora* (Kützing) Sonder, *Sargassum furcatum* Kützing, *Acanthophora spicifera* (M. Vahl) Børgesen, and *Galaxaura frutescens* Kjellman from São Sebastião, Brazil (Oliveira et al. 2006); on *Cymodocea ciliata* (Forssk.) Ehrenb. ex Asch., *Cymodocea serrulata* (R.Br.) Asch. & Magnus, *Diplanthera uninervis* (Forssk.) Asch., *Syringodium isoetifolium* (Asch.) Dandy, and *Thalassia hemprichii* (Ehrenb.) Asch. from Tulear, Madagascar (Gravier 1970).

Zanclea alba (Meyen, 1834) – On *Sargassum fluitans* (Børgesen) Børgesen and *Sargassum natans* (Linnaeus) Gaillon from the Sargasso Sea, Bermuda (Calder 1995); on *Posidonia oceanica* (Linn.) Delile from Lacco Ameno and Prelo, Italy (Boero 1981).

Zanclea costata Gegenbaur, 1856 – On Rhodophyta from São Sebastião, Brazil (Oliveira et al. 2006).

Zanclea sp. (*sensu* Faucci & Boero, 2000) – *Cystoseira compressa* (Esper) Gerloff & Nizamuddin, *Cystoseira barbata* (Stackhouse) C. Agardh, and *Cystoseira amentacea* (C. Agardh) Bory de Saint-Vincent from Porto Cesareo, Italy (Faucci and Boero 2000).

Figure 1. *Aglaophenia latecarinata*; on *Sargassum furcatum* from São Sebastião, Brazil. Photo: O. Oliveira.

Figure 2. *Clytia gracilis*; on *Sargassum furcatum* from São Sebastião, Brazil. Photo: A. Migotto.

Figure 3. *Clytia gracilis*; on *Hypnea musciformis* from São Sebastião, Brazil. Photo: A. Lindner.

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Figure 4. *Clytia noliformis*; on *Galaxaura frutescens* from São Sebastião, Brazil. Photo: A. Lindner.

Figure 5. *Ectopleura obypa*; from São Sebastião, Brazil. Photo: A. Migotto.

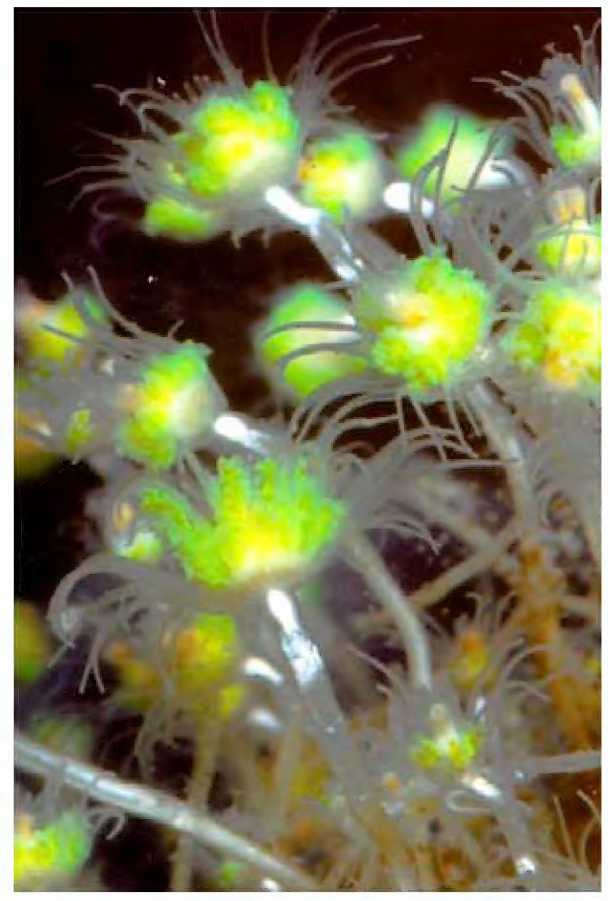

Figure 6. *Ectopleura obypa*; from São Sebastião, Brazil. Photo: A. Migotto.

Figure 7. *Eudendrium pocaruquarum* from São Sebastião, Brazil. Photo: O. Oliveira.

Figure 8. *Sertularia loculosa*; from São Sebastião, Brazil. Photo: A. Migotto.

Figure 9. *Sertularia turbinata*; on *Sargassum cymosum* from São Sebastião, Brazil. Photo: O. Oliveira

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